

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES

☎: (0431) 2575010 / 2575123 /e-mail: umadsankar@bhel.in



ISO 9001

ENQ No: 9451800022

Dt. 15.05.2018

NOTICE INVITING TENDER

SUB: Extension of LT Panel in HRDC Substation.

Ref: Enquiry No: 9451800022/ Dated: 15/05/2018; Due Dt: 06/06/2018

Tender of the following work should be submitted in a sealed cover consisting of three inner sealed covers such as 1) EMD cover, 2) Technical bid cover & 3) Price bid cover, all superscribing the name of work, enquiry number etc.

- 1) EMD cover shall contain requisite **EMD of Rs. ₹ 8,528/-** & Payment of EMD must be in e-Collect mode only. Tender without EMD will be summarily rejected and the Technical bid & price bid shall not be considered.
- 2) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote only the percentage rates ie. Below (- %) / At par (0%) / Above (+ %) of the rates provided in Price bid.

The complete Technical bid and price bid along with requisite **EMD of ₹ 8,528/-** shall reach the office of the undersigned on or **06/06/2018 at 14.00 Hrs.**

EMD of ₹ 8,528/- must be paid & Payment of EMD should be in e-Collect mode only. Tender without EMD will be summarily rejected and the Technical bid & price bid shall not be considered.

(Note: There is no provision of EMD waiver for MSE suppliers and EMD amount as shown above must be paid.)

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The Technical bid will be opened on the same day at **14.30 hrs.** In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You/ Your authorized representative may participate in the tender opening.

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,
Engineer/Contracts
Maintenance & Services

Encl:

- 1) NIT – Notice Inviting tender (Consists of Preamble, Technical Bid & price bid)

Tender should be addressed to:

**THE ENGINEER,
MAINTENANCE & SERVICES / CONTRACTS,
2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,
HIGH PRESSURE BOILER PLANT,
TIRUCHIRAPPALLI - 620014,
TAMILNADU**

Sign & Seal of Contractor

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NOTICE INVITING TENDER

01.	Name of work	Extension of LT Panel in HRDC Substation.
02.	Earnest Money Deposit	₹ 8,528/-
03.	Duration of the contract	4 Months from the PO date.
04.	Last Date for Receipt of Tender	14.00 Hrs on 06/06/2018
05.	Date of Technical Bid Opening	14.30 Hrs on 06/06/2018
05.	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
07.	Guarantee Period	Not applicable

The Tender documents can be downloaded from BHEL website (www.bhel.com) / govt. website (www.tenders.gov.in) at free of cost.

Tender document contains 13 Pages (Technical Bid -12 Pages, Schedule for price bid – 01 page).

ISSUING OFFICER

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TECHNICAL BID

NAME OF THE WORK: Extension of LT Panel in HRDC Substation.

Ref: Enquiry No: 9451800022/ Dated: 15/05/2018; Due Dt: 06/06/2018

PRE-QUALIFICATION CRITERIA

The following eligibility criteria shall be complied to fulfill the Technical bid:-

Sl. No	Description	Vendor to confirm
1	Only those vendors who, have supplied MV Panel of maximum capacity of 1000 Amps / Higher rating that is working satisfactorily for atleast one year after commissioning should quote.	
2	The Vendor should submit the following details which are necessary for qualifying their offer.	
2.1	List of Customers for whom similar kind of equipment were supplied along with address.	
2.2	Along with Technical Offer, the Vendor should submit Performance Certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head.	
2.3	The Vendor should submit the CPRI/ ERDA/ Other reputed laboratory type test report for the panels manufactured for proving the manufacturing capacity of the vendor.	
3	BHEL may verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected. Bidder to confirm.	
4	(i) BHEL Vendor code (if applicable) - (ii) PAN Number (Copy to be Enclosed) - (iii) GSTN registration Number (Copy to be Enclosed) - (iv) Mobile number (Which is linked to GSTN registration Number) - (v) Email id (Which is linked to GSTN registration Number) - (vi) HSN/SAC Code - Offer will be entertained only if the vendor submit the details as above & has a valid GST registration no. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. Otherwise the offer shall be rejected.	
5	Acceptance for Scope of Work as per the Enquiry	
6	Acceptance for All Terms & Conditions as per the Enquiry	
7	The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice	

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BILL OF QUANTITIES:

ITEM NO.	SCOPE OF WORK	UOM	QTY	RATE	VALUE
10	Expansion of LT panel in HRDC substation of BHEL with Supply, installation, testing and commissioning of 2 Nos 1000Amp ACB, bus bar, panel and associated accessories as per the detailed specification given below:	AU	1	426400	426400

DETAILED SCOPE OF WORK:

Sl. No.	SCOPE OF WORK	Vendor to confirm	Deviation, if any
	Supply, installation, testing and commissioning of LT panel for extending the existing LT panel with supply of ACB, Busbar, panel and other related accessories as detailed below:		
1.0	Air Circuit Breaker Make : L & T or GE or SIEMENS or SCHNIEDER or ABB		
2.0	Outgoing Breaker : 1000A, 415V, Three Phase and neutral, draw-out type, true, trip free, electrically operated spring closing type, Air Circuit Breakers having 30V DC shunt trip, emergency hand trip, 4No + 4NC auxiliary contacts, ON / OFF mechanical indication, Integral self powered current release, current transformers of required quantity, burden and accuracy for metering and for Protection and confirming to IEC 60947 /2 / IS 13947 (Part 2). Quantity - 2 Nos.		
3.0	Bubars 3000A, TPN aluminium busbars.(Size -2 runs of 150mmx10mm for phase & 1 run of 150mmx10mm for neutral.)		
4.0	OUT GOING PANEL SPECIFICATIONS		
4.1	Air Circuit Breaker rated current, Voltage, short circuit breaking capacity: 1000A, 415V, 50KA as specified.		
4.2	Current Transformer Ratio: 1000 /5A-2 Set		
4.3	CT with 2 core(reputed make acceptable to BHEL)		
4.4	Digital multifunction meter of class 1.0 to show the readings of Voltage, Current, Power,PF, frequency and %THD of voltage & current.Required makes of CONSERV,L&T,AE, SECURE , ELmeasure, RISHAB along with RS 485 communication port.		

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4.5	Digital type Three Phase Over Current & Earth fault Relays with High set Communication and breaker control. (L&T MC31, ABB, SIEMENS, SCHNEIDER P122 or other reputed make accepted by BHEL).		
4.6	Indication lamp for panel (On/Off/Trip): LED type		
4.7	Cable Entry (Detachable type): PVCAA - PVC Aluminium armoured cables, bottom entry.		
5.0	Specification for MV Switchgear Panel.		
5.1	Approx. overall dimensions of the Panel (approx. 1280mm depth & 2380mm height to match the existing panel)		
5.2	Make of the accessories in the panel, type, no of ACB, technical leaflet of the ACB and protection release, copy of the type test report of the ACB to be furnished in the offer.		
6.0	3 sets of O & M manual for each panel including spare parts list for the breakers and panel, general arrangement, drawing, power schematic drawing wiring diagram shall be supplied along with the panel.		
7.0	General Features.		
7.1	Outgoing feeder panels shall house two Air Circuit Breakers in two-tier formation along with busbars, metering and other accessories. Sufficient space for maintenance shall be provided in the panel.		
7.2	Bus bars shall be made of high conductivity aluminium alloy with adequate cross section to operate at low operating temperatures.		
7.3	The neutral busbars shall have a continuous current rating of 50% of the phase busbars. All busbars shall be insulated with heat shrinkable insulating sleeve, colour coded for easy identification of individual phases and neutral.		
7.4	The earth busbar of size 50x6 mm copper shall run through out the length of the switch board and be terminated at the two ends with cable eyes to match the existing panels.		
7.5	High tensile bolts (cadmium coated) and spring washers shall be provided on all busbars, connection joints and terminations with washers.		
7.6	Panel sheet should be of CRCA 2.5/3.0mm thick. All sheet steel work used in the panels shall undergo a rigorous metal treatment process involving alkaline degreasing descaling in dilute sulphuric acid, phaspating and painting.		

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7.7	The panel shall have cable chamber housing with suitable supports, end connections and power / control cable terminations. Adequate safety shall be provided for working in one vertical section without accidental contact with the live parts in an adjacent section.		
7.8	Adequate number of cable riser supports shall be provided to withstand rated short circuit current.		
7.9	Front and rear doors shall be fitted with dust excluded neoprene gaskets with vermin proof. (protection of IP20)		
7.10	External aperture for ventilation shall be covered with a perforated sheet to prevent entry of vermin.		
7.11	The ACBs shall have three distinct positions i.e. service, test and isolated with position indicators. (Mech/elec)		
7.12	Automatic shutters shall be provided to screen the live parts when the breaker is drawn out of the cubicle.		
7.13	The ACB shall be equipped with an integral self powered microprocessor based current release, which works on true RMS values for ensuring accurate protection, Overload, selective short circuit, instantaneous circuit and earth fault protections shall be provided along with the LED indication/LCD screen. The protection unit should confirm to the EMI / EMC requirement.		
7.14	The min. setting range of protection release should be as follows. (a) Over load protection shall have adjustable setting from 50% to 100% of the circuit breaker rated current in steps of 5% preferably. (b) Short time delayed short circuit protection shall have adjustable current setting from 200% to 1000% of the overload setting and adjustable time setting for time discrimination from 20ms to 400ms. (c) Instantaneous short circuit protection shall be adjustable from 2 to 15 times rated current. (d) Earth fault protection shall have current setting from 20% to 60% of rated current and adjustable time setting from 100ms to 400ms.		
7.15	Trip indication shall be provided to display the exact nature of fault(LED/LCD screen) like OL/EF/SC. Test facility to test the healthiness of the release and the trip circuit of the breaker shall be provided.		
7.16	The ACB shall be provided with mechanical anti-pumping feature to prevent auto reclosing of the breaker on fault and necessary safety interlocks for closing the ACB.		
7.17	The control panel of ACB along with its operating device shall project through the cutout in the door which is provided with suitable gasket (without any air gap).		

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7.18	The ACB shall be suitable and should be able to carry the rated current for an ambient temperature of not less than 45 degree C without any derating and suitable for working in Indian condition.		
7.19	The Ultimate breaking capacity (Icu) should be equal to service breaking capacity (Ics) and short time withstand capacity (Icw) for 1 sec.		
7.20	Provision should be available for the following. (a) to switch "ON" and switch "OFF" ACB from a PLC/SCADA using the closing coil and shunt trip. (b) to monitor the ON / OFF status of the breaker through a PLC/SCADA (c) to monitor and acquire the data regarding parameters like current, voltage, power, energy, PF, Harmonics through the communication port of the digital multi-function meter.		
7.21	The cassette and the breaker shall be provided with standard interlocks related to the opening / closing of the doors and the positions of the breaker.		
7.22	All control wiring shall be carried out with 1100 V single core FRLS PVC cable having standard copper conductors of min. 1.5 sq.mm. section for potential circuits and 2.5 sq.mm. section for current transformer circuit wires shall be identified with number ferrules at either end.		
7.23	Removable gland plates shall be provided at the bottom of panel for cable termination with thickness of min 2mm.		
7.24	The construction of the panel shall generally confirm to the Indian Electricity Rules/CEA regulations.		
7.25	Technical catalogue furnishing the features of the controller (ACBs, Meters etc.,) and panel shall be enclosed with the offer Required.		
8.0	Erection and commissioning of the panel: The new panel shall be matched and connected with the existing panel by suitable jointing.		
8.1	Necessary aluminum bus required for extending the panel shall be in the scope of bidder.		
8.2	The erection work shall be carried during sundays/ holidays or non-working hours. Suitably the work shall be planned.		
8.3	The existing switch gear panel is of dimension depth 1280 mm & height 2380 mm. The new extension panel should match the existing panel size. The existing panel bus bar of size 100X 10 mm , 2 runs aluminium for Phase and one run for Neutral. The contractor should supply main bus and inter connecting bus bars suitable to the existing one with required support insulators. The earthing busbar shall be of copper material.		

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	<p>Note :</p> <ol style="list-style-type: none">1) GA drawings and bill of materials to be submitted for approval before manufacturing the panels.2) Final inspection to be offered at supplier works before despatch.3) During commissioning the MV panel in the substation, programming of the ACB, Protection relays and Energy meters to be supported by the supplier / firm and necessary training to our staffs should be given.4) Point by point confirmation is required from the supplier otherwise the offer will not be considered.5) The contractor should visit the Sub Station and assess the work content before quoting
	<p>General conditions:</p> <ol style="list-style-type: none">1.Necessary MS material such as angle, channel, flat, welding electrode etc will be supplied by BHEL.2.The contractor should supply necessary civil tools and materials for floor opening, grouting and floor concreting for erection and commissioning of panel.3.Letter painting work in all breakers mentioning the cable size, bus bar arrangement identification of the breaker etc should be done by the contractor as per the instruction of substation in charge.4.Electric power for welding and other erection purpose will be provided by BHEL.5.Welding machine, gas cutting set and regulator should be brought by the contractor.6.Minor paint touching shall be done on the panel for damages caused during transportation of panel is under contractors scope. Paints will be supplied by BHEL.7.Contractors should engage only Electrical "B" License holder for all Electrical work.8.Erected panels should be handed over in good working condition after testing and commissioning.

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GENERAL TERMS AND CONDITIONS FOR M&S CONTRACTS

- 1) The workmen of contractor should be covered under PF/ESI, etc., as per labour laws.
- 2) Safety precautions have to be ensured by the Contractor Depending on the work nature. Necessary work permit system and personal protective equipment's (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt etc. as applicable to Mechanical works should be adhered while carrying out the work.
- 3) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 4) The contractors may visit the area to assess the quantum of work before quoting.
- 5) The contractor should mention the point to point confirmation.
- 6) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 7) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below.
- 8) The contractor should quote the exact time required to complete the work in their offer.

TENDERING CONDITIONS:

- a) The Bidders shall submit the offer in TWO PART BID SYSTEM (Part -I & II) along with EMD as indicated below which shall be sealed in ONE OUTER ENVELOPE.
- b) Envelope I- This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. Envelope I should contain sealed EMD cover indicating the enquiry detail.
- c) Envelope II - This sealed envelope should contain price details. This envelope should be clearly marked as - "Part -II Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- d) Envelope III - This sealed envelope should contain requisite **EMD**. This envelope should be clearly marked as - "EMD COVER", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- e) All the three envelopes shall be put in one cover, duly sealed, super scribing as offer for Enquiry No., and due date of opening, Name of the work and the address and reference of the Bidder.
- f) The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.
- g) Tender should not be addressed to any Individual's name but only by designation to:

THE ENGINEER
MAINTENANCE & SERVICES / CONTRACTS,
2&4 BUILDING,
BHARAT HEAVY ELECTRICALS LIMITED,
HIGH PRESSURE BOILER PLANT,
TIRUCHIRAPALLI - 620 014.
TAMIL NADU, INDIA.

- h) Tenders should be free from CORRECTION AND ERASURES, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there

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is difference between amount quoted in words and figures, amount quoted in words shall prevail.

- i) Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.

OPENING OF TENDERS:

- a) The Part I - Technical & un-priced commercial bid and EMD Cover alone would be opened on the Tender opening date (as mentioned in the enquiry) by 10.30Hrs(IST)
- b) The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically Suitable Bidders would be informed about the Price bid opening date.
- c) Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

GST:

1. Response to Tenders for Contractor will be entertained only if the vendor has a valid GST registration no which should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.
2. Contractor shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).

LD CLAUSE:

If the contractor fails to complete the work as per terms & conditions of the order within the delivery schedule, 0.5% of the order value will be deducted for each week of delay or part thereof subject to a maximum of 10% of the total contract value.

IMPORTANT NOTE: BHEL reserves the right to short close this contract with one-month advance notice due to administrative reasons. BHEL's decision in this regard is final. Under such circumstances payment will be made for actual number of work carried out up to the period.

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COMMERCIAL TERMS AND CONDITIONS FOR M&S CONTRACTS

1. 100% payment will be made after completion of work on submission of invoice in triplicate duly certified by Area In – charge.
2. Attendance register should be maintained.
3. **Payment of EMD & SD must be in e-Collect mode only, while making such payment, Enquiry number may be mentioned in Remark column. Offers without EMD shall be liable for rejection.**
 - a. **Procedure to remit money to BHEL Trichy's Account :**
 - b. Login to : <https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=574693>
 - c. Select State Bank Collect available on the top (pre login page)
 - d. Accept the terms and conditions and click "PROCEED"
 - e. Select State "TAMILNADU " and Institution type " INDUSTRY ".
 - f. Select " **BHEL TRICHY** under "INDUSTRY".
 - g. In the next page, Select APPROPRIATE category, fill details correctly & click "SUBMIT".
 - h. If all details entered are correctly populated, click "CONFIRM "to proceed.
 - i. Make payment as per your convenience. (Options available are payment of fees through **SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches**).
 - j. SAVE & Keep the copy of receipt for future reference.
4. Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit. SD is forfeited in case of any failure in execution of the contract or due to any shortcomings observed in the documentation furnished earlier for getting qualified or in case the Contractor is banned.
5. An additional payment as per circular ref. BHE/HR/W/EW/08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamil Nadu:
 - a) Unskilled - Rs.3200/-
 - b) Semiskilled - Rs.3700/-
 - c) Skilled - Rs.4100/-
6. Bonus @ 8.33 % to workmen to be paid.
7. **Rate should be quoted as per price bid.**
8. The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
9. The contractor should quote the validity of the offer.
10. If two or more vendors offer the same rate, negotiation will be conducted separately.
11. The contractor should remit the salary/wages for their workmen only through Bank. Monthly clearance will be given in respect of all contractors, if only the salary/ wages to the workmen has been remitted through the bank account of the contract workmen. The relevant Bank statement/proof for Bank payment should be produced along with PF and ESI challan's to Welfare Section every month.

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SCHEDULE FOR PRICE BID

SUB: Extension of LT Panel in HRDC Substation.

Ref: Enquiry No: 9451800022/ Dated: 15/05/2018; Due Dt: 06/06/2018

Sl. No. (1)	Approx. Value of work (2)	Below (- %) / At par (0%) / Above (+ %) of the rates appended in Bill of quantities	
		In Figures (3)	In Words (4)
10	Rs. 4,26,400/- (Rupees Four Lakhs Twenty Six Thousand Four Hundred only)		

- Taxes if any should be quoted extra.

- 1). Payment terms: 100% Payment will be made after completion of work on Submission of invoice in triplicate duly certified by Engineer in Charge.
- 2). Tax deduction will be made from every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 3). Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.
- 4). **Cumulative L-1 will be considered for ordering.**

Sign & Seal of Contractor